

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	523	(weight near5 (page or sheet)) near5 (toner or ink or printed)	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:40
2	BRS	L2	2208	(determin\$6 or calculat\$6) near5 (weight near5 (page or sheet))	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:31
3	BRS	L3	25	l1 and l2	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:39
4	BRS	L4	13031 19	(toner or ink or printed)	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:39

	Type	L #	Hits	Search Text	DBs	Time Stamp
5	BRS	L5	338	l2 and l4	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:39
6	BRS	L6	48262	(weight near5 (page or sheet))	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:40
7	BRS	L7	338	l5 and l6	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:41
8	BRS	L8	10322 73	attribute or parameter	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:41

	Type	L #	Hits	Search Text	DBs	Time Stamp
9	BRS	L9	162	l7 and l8	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:41
10	BRS	L10	65277 6	ink or toner	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:41
11	BRS	L11	88	l9 and l10	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:50
12	BRS	L12	12810 5	printed near5 (sheet or copy or paper)	US-PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:50

	Type	L #	Hits	Search Text	DBs	Time Stamp
13	BRS	L13	123	l7 and l12	US- PGPU B; USPA T; USOC R; EPO; JPO; DERW ENT	2004/12/1 1 10:50

?t s10/6,k/1-47

10/6,K/1 (Item 1 from file: 15)

DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv..

02520604 256227951

USE FORMAT 9 FOR FULL TEXT

The basics of paper buying

Nov 2002 LENGTH: 2 Pages

WORD COUNT: 1289

...TEXT: number of cartons or skids, and in the case of mill-making orders, the total **weight** .

SIZE AND M WEIGHT

Because **paper** has many different uses, each grade is cut into different standard sizes. Among these standard...

...there is one size in each grade of paper that is used to establish the **weight** of a **sheet** . This is called the basic size. The basic size differs from grade to grade. Bond...

... Paper prices are given per thousand sheets, hence the "M." The M weight is the **weight** of 1,000 sheets cut to the basic size. To **determine** the M **weight** , you must know the ream **weight** . There are 500 sheets of a particular **sheet weight** in a ream. The M weight is simply double the ream weight. If a ream...

...80 lbs.

BASIS WEIGHT

Almost all printing papers are manufactured and identified by their basis **weight** , which, as previously stated, depends on basic size. It is **determined** by one ream (500 sheets) of a given paper cut to its basic size.

Strictly speaking, substance weight is the basis **weight** of bond **paper** (500 sheets of 17 x 22 inches), but the terms "basis weight" and "substance weight..."

...the best general description.

The paper selected must be suitable for the printing process and **ink** used, as well as adaptable to the physical requirements of the job. Special consideration should...

...require a glossy enamel finish, making the finish chosen a top priority. If high-bulk **paper weight** is necessary, a low-finish, antique paper will suffice.

Finishes are created during the papermaking...

... unique surface that is easy to handle after printing. It has a greater degree of **ink** absorbency, and thus, less tendency to smear. Further smoothing of the paper results in a...of the grain. Paper will fold more easily and smoothly parallel to the grain. Heavier- **weight paper** , like cover and bristol, may fold without scoring when folded parallel to the grain; scoring...

10/6,K/2 (Item 2 from file: 15)

DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

01563660 02-14649

****USE FORMAT 9 FOR FULL TEXT****

A beginner's guide to automated page make-up

1998 LENGTH: 2 Pages

WORD COUNT: 1453

...TEXT: that program to create the magazine's impositions and print order, as well as to **calculate** the **paper** and **weight** of the book (tasks she's now doing by hand). Using EDI technology and a...

...web to save costs.

Prior to using Impoze (also Windows-based), Endless Vacation was wasting **ink** and paper through inefficient use of the web press, says Bridget Burns, technical print buyer...

... many versions will be printed on one plate, and to make changes to maximize paper, **ink** and bindery pockets. "With Impoze," she says, "I can also get a preview of the..."

10/6,K/3 (Item 3 from file: 15)

DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

01438903 00-89890

****USE FORMAT 9 FOR FULL TEXT****

Designed with printing in mind

Jun 1997 LENGTH: 2 Pages

WORD COUNT: 1646

...ABSTRACT: before, during and after the printing process. Considerations include the following: 1. trim size, 2. **paper weight** and grade, 3. alternative printing options, 4. streamlining photo work, and 5. the mailing process.

...TEXT: on ways to save money, Schmid says. 'They may be able to recommend a lighter- **weight paper** that'll work for you or they might suggest going to a plus cover format...

...noting that it's also important to look at what paper you're using to **determine** the right size to achieve the **weight** you want.

PAPER CHOICES

There are two considerations you need to worry about when specifying **paper**: **weight** and grade. In terms of weight, the questions you need to ask yourself are what...

... grade paper to ensure crisp photo reproduction and accurate color. "A better grade equals better **ink** holdout and that results in finer detail and better four-color reproduction," Gray says. Higher...they go to the web press to print the entire run of 500,000.

And **ink** -jet printing is not just for addressing anymore. Many printers today have the capability to use...

... at the addressing stage, the variable information such as prices or product codes could be **ink-jetted** on the cover."

STREAMLINE PHOTO WORK

Digital cameras require a substantial up-front investment...

10/6,K/4 (Item 4 from file: 15)

DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

01407525 00058512

USE FORMAT 9 FOR FULL TEXT

Software for dummies

Apr 15, 1997 LENGTH: 3 Pages

WORD COUNT: 1466

...TEXT: that program to create the magazine's impositions and print order, as well as to **calculate** the **paper** and **weight** of the book (tasks she's now doing by hand). Using EDI technology and a...

...a web to save costs.

Prior to using Impoze (also Windowsbased), Endless Vacation was wasting **ink** and paper through inefficient use of the web press, says Bridget Burns, technical print buyer...

... many versions will be printed on one plate, and to make changes to maximize paper, **ink** and bindery pockets. "With Impoze," she says, "I can also get a preview of the..."

10/6,K/5 (Item 5 from file: 15)

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00940961 95-90353

USE FORMAT 9 FOR FULL TEXT

5 ways to save money at the printer

1995 LENGTH: 2 Pages

WORD COUNT: 1159

...TEXT: feel that you've cut all the corners you can on things like printing, paper, **ink**, binding and shipping, and you've also reviewed your invoices to make sure you're...

... addition, many printers charge a handling or insurance fee. Carefully review your printing invoice to **determine** what you're being charged per hundred **weight** (cwt). Then call some **paper** brokers, merchants and mills. You'd have to buy extremely large amounts of paper to...

... instead of four colors over four (4/4). That translates into fewer colors and less **ink**, which means less makeready--and that means less expense. Another option would be to print...16,000 per year. On top of that, you'll realize a minimal savings in **ink**.

5. DON'T STOP THE PRESSES

There's no valid reason to stop a pressrun...

10/6,K/6 (Item 6 from file: 15)

DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

00768723 94-18115

USE FORMAT 9 FOR FULL TEXT

Reduce, reuse, and recycle

Sep 1993 LENGTH: 2 Pages

WORD COUNT: 808

...TEXT: ll probably discover that rent is charged according to cubic yards, while disposal rates are **determined** by **weight** which is often averaged (for example. 1 cubic yard may be estimated to equal 500 pounds). If loose materials, such as empty boxes or **paper** towels, are included in a **weight estimate**, you may be paying to haul away air.

To remedy this situation, ask the hauling...

...cardboard will at least reduce bulk and hauling charges.

Environmentally hazardous material, such as laser **toner** cartridges and batteries, can easily be collected and recycled. Because of high mercury levels, hearing...

10/6,K/7 (Item 7 from file: 15)

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00579159 91-53506

****USE FORMAT 9 FOR FULL TEXT****

Papermaking and the Paper Machine of the Twenty-First Century

Oct 1991 LENGTH: 26 Pages

WORD COUNT: 17238

...TEXT: optimum use of fibers to provide a smooth, dense, lint-free platform to receive the **ink** .

Expanded xerographic copy rates will place greater demands on copy paper uniformity and stability for...

... will continue to decline, being replaced by flexography and other printing methods, such as jet **ink** and laser printing. Rotogravure will show moderate growth. Offset printing will gradually decline in favor... ONP) is about 80%, or 80 tons of fiber. The remaining 20 tons are the **ink** and other residuals that must be disposed of.

However, since the consistency of the contaminants... and dispersion technologies. However, the most important advances have been in the areas of analysis, **ink** removal, and overall system design. Understanding of the removal processes has been greatly enhanced by...

...deinking technology--pressurized flotation deinking.

Pressurized flotation technology recognizes the existence of a relationship between **ink** and bubble sizes for optimum removal efficiency. Pressurized deinking modules generate a wider spectrum of bubble size to effectively capture a wider range of **ink** particles, thus increasing **ink** removal efficiency by flotation. Whereas **ink** removal efficiency of conventional flotation cells is 70% to 80%, the Pressurized Deinking Module (PDM...

... been the recognition of the role that high efficiency centrifugal cleaners have in removing larger **ink** particles and the importance of system design. Systems have become more sophisticated with multi-loop...

... inks and alkaline/acid systems to remove alkali soluble materials prior to acid papermaking. Overall **ink** removal efficiencies in the high 90% range are necessary and typical in a modern deinking...which come in with the wood), additives such as defoamers, deinking chemicals, materials such as **ink** binders, hotmelts, coating hinders (which come in with the furnish), and contaminants in the mill... to achieve uniform coating hold-out with minimum coating bleed through. The uniformity of base. **sheet** basis **weight** and coat **weight** is critical for uniformity of response to calendering and to uniform smoothness, gloss, and printability...basis weight limitations of Rule 41, compression strength can be met with a lower-basis- **weight sheet** and a corresponding reduction in fiber costs.

Linerboard fiber cons will be reduced even further...

... recent fiber cost economics dictate that desired sheet bulk be

maintained with a lower basis **weight** .

The **sheet** properties of smoothness and stiffness with lower basis weight are being achieved through the evolution...strength of containerboard. which can be substituted for the traditional Mullen bursting strength and basis **weight** measurements.

Bursting strength (measured by the Mullen test to **determine** the ability of container walls to resist rupture) has, since Just after the turn of...

...will use more advanced flow control techniques than mechanical slice lip distortion to alter basis **weight** . Formers on the **paper** machine of the twenty-first century probably will be twin-wire units because of the...

10/6,K/8 (Item 8 from file: 15)

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00535998 91-10342

SQC Graphics Paint the Picture of Quality Control at Work

Jan 1991 LENGTH: 3 Pages

...ABSTRACT: in the translation. QC tests employed at H. P. Smith include:
1. X-rays to **determine** silicon **weight** on **paper** samples, 2. tear and tensile strength testing of both raw and coated stock, and 3. an **ink** test for porosity. ...

10/6,K/9 (Item 9 from file: 15)

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00138764 81-08565

Physical Properties of Paper and Their Effect on Copier Performance

Mar 1981

ABSTRACT: In liquid or dry-**toner** copying machines, the physical properties that affect paper feeding include: 1. caliper, 2. porosity, 3 ...

... properties, and 6. moisture. The physical properties of paper that affect paper imaging in dry- **toner** machines are: 1. moisture, 2. electrical properties, 3. smoothness, 4. brightness, and 5. opacity. The physical properties that affect imaging in liquid- **toner** units are the same, but also include porosity. Basis **weight** of **paper** is **determined** by physically cutting out a given-size sheet and weighting it on a balance. Caliper...

10/6,K/10 (Item 1 from file: 16)

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09303435 Supplier Number: 80892401 (USE FORMAT 7 FOR FULLTEXT)

R305 rides into Hawick. (Buccleuch Printers installs MAN Roland press) (Brief Article)

Dec 10, 2001

Word Count: 191

... CIP3 data. The Pecom system ensures that we can do this with maximum effectiveness, taking **paper** type and **weight** into account when **calculating ink** duct settings. Details of up to 5,000 jobs can be stored on the Pecom...

10/6,K/11 (Item 2 from file: 16)

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08893704 - Supplier Number: 76953657 (USE FORMAT 7 FOR FULLTEXT)

SECTION 6: BINDING & FINISHING.

July, 2001

Word Count: 34319

... Victory Calendar heatsealing machine in fully automatic and semi-automatic models. Heat-sealing process combines **ink**, coated paper, heat and pressure to produce biodegradable calendars at a speed of 1,200... 000 c/hr. Prima with AMRYS automatic make ready system. Can be upgraded to include **ink**-jet addressing and selective binding.

14,000 c/hr. Prima-SB for selective binding includes...but no wiring.

Circle 814 on Info Card

Profold

Air Transport (AT-50) accommodates an **ink**-jet printer and dryer. Its air suction (low vacuum and high air volume--700 cubic...

...suction per minute) provides strong product adherence, maintaining product alignment with no vibration and optimizes **ink**-jet printing speeds. Proprietary table height mechanism allows for easy pass line height adjustments from...s custom software system control packages and can be integrated with Longford feeders, shrink wrappers, **ink**-jet printers and bar code scanners.

Circle 822 on Info Cards

Colter & Peterson

Air conveyor...

...824 on Info Card

KEPES Inc.

Complete line of conveyors: Includes heat-resistant conveyors for **ink**-jet printing and infrared drying, accumulating, machine interfaces, stream separating and impact label application.

Mobile...

...Heidelberg 705 5-knife trimmer. Positively accepts trimmer output and controls, and the work for **ink**-jet application and delivery to a stacker. Includes stacker interface enclosure and operator stations. May...of digital display with a remote platform placed under a jogger. After obtaining a sample **weight** on the reference scale, the remote platform **determines** the piece count during the jogging process. Allows jogging and counting processes to be done...

...quickly and easily. Maintain a running sub-total to 1 million pieces. Also good for **ink** mixing.

Circle 835 on Info Card

Standard Finishing Systems

Horizon CP-20 counters with built...various printers, cutters and roll unwinds for continuous forms, as well as with tabbers and **ink**-jet addressing systems.

Multimaster CAS 38 small-format folder operates at speeds of up to ...Available with optional 8-page unit, perf-score attachment, paper stop kit for shorter folds, **toner**-resistant fold rollers, sound covers and more.

714XE Friction feed folder with sealed ball bearings...with interfacing to most makes of perfect binders.

(ILLUSTRATION OMITTED)

Circle 1139 on Info Card

Ink-jet Imaging & Personalization

Marconi Data Systems (formerly Videojet Systems)

Cheshire imaging system 4000 modular **ink**-jet system addresses, personalizes, bar codes, serializes and dates. Offers versatility of image placement, font...

...outside imaging, demographic gathering and mail sorting.

...Videojët PrintPro system is a complete non-contact **ink** -jet imaging system capable of printing fixed or variable text, logos, bar codes or graphics...

...cards or specialty printing. Each unit contains 2 (1" or 2") print heads and 2 **ink** management systems, enabling one PrintPro unit to print 2 spot colors at the same time...

...without artificial drying. Higher speeds are possible with additional drying capacity.

INNOJET/CIS wide format **ink** -jet printer. High-speed digital imaging system for personalized printing. Each system supports up to...

...as a standalone system.

Circle 1148 on Info Card

Graphic Whizard

The Ultra-Mark 2000 **Ink** Jet Printing System is compatible with Windows 98 & NT, has a built-in 6 l...

...and numbering functions are standard features.

Circle 1149 on Info Card

OLEC Corp,

OLEC Spectrum **ink** -jet imagers provide printing on rigid surfaces.

Circle 1548 on Info Card

Heidelberg Web Systems

BC330/1000/2000/2100: Computer-controlled mailing systems to **ink** -jet names/addresses on magazine and catalog covers. Print personalized messages on inside pages. Systems...

...for adhesive binding. All models are expandable to include selective binding control. A variety of **ink** -jet engines with postal bar code capability can be accommodated.

Circle 1145 on Info Card

Domino Amjet

Editor 2: economical and versatile controller. Sophisticated **ink** -jet control system offers multiple position imaging and creative messaging features. Advanced personalization possibilities combined...

...simple mailing base to a multistation, high-volume selective bindery line. Operates with all Domino **ink** -jet printers for inside/outside addressing, personalization, numbering and POSTNET bar coding. Four basic levels...

...on an integral CRT. Optional LED marquee for area-wide display.

Editor GT is an **ink** -jet controller package based on Windows NT. Provides control for addressing, in-line personalization, job...

...lines, webs and mailing tables. Supports any combination of Domino printers, driving up to 8 **ink** -jet print heads.

BIT JET 212 **ink** -jet print engine designed to be directly driven from an external PC, local area network...

...conveyor for continuous feeding of large quantity jobs--outputting up to 400/min. depending on **paper weight** and type fold.

Circle 1159 on Info Card

Pfankuch Machinery

Friction Feeder/Autoloader handles product...speed motor.

The Finishing Control System (FCS) builds demographic or bulk books with or without **ink** -jet printing on finishing lines. The FCS monitors and controls pockets such as card feeders, label applicators and glue guns. The FCS interfaces with most manufacturers' **ink** -jet print engines and with a wide range of other finishing equipment.

Circle 1156 on...to 35 fpm.

Wide-format finishing: GBC Titan and Falcon Series: laminate, encapsulate and mount **ink**-jet prints up to 80" wide using either thermal or PSA films.

GBC Orca Series...off-line for high-volume addressing and sorting with minimum labor requirements. Labeling head and **ink**-jet can be equipped with a ZIP code postal sortation reading system, may be connected ...

...Prim Hall

The Mail Table is a dedicated conveyor section for the expressed purpose of **ink**-jet addressing. Easily adjusted guides; heavy-duty steel frame; micro positioning **ink**-jet head mounting; available as basic units or as systems; available in lengths of 6...

...or rotary feeders.

Circle 1280 on Info Card

Buhrs Americas

VariaStream: ultra-high-speed labeling **ink**-jet system. **Ink**-jet at up to 42,000 books/hr, or label at 36,000/hr. Handles control systems designed to accommodate applications of preprinted address labels or **ink**-jet printing on-line for sortation. Mail control systems expand in-line processing capability by...

...or 1 tab at 30,000+. Can be placed in-line with a labeler or **ink**-jet base or off-line with a Profold high-speed feeder.

Linx DX high-production...or off-line with a variety of material handling functions including: inserting, quarter folding, labeling, **ink**-jet imaging, printed film registration, selective assembly, ZIP sorting and co-mailing. Dedicated to sales...Binding

Spiral Binding

Spiralcoil, Inc.

Standard Finishing Systems

Staplex-Electric Stapler Div.

Tolerans-Ingol

Toyo **Ink** Int'l

xpedx

Depalletizers

Book Technology Group

C&D Robotics

FANUC Robotics North America

FECO...

...Systems

Robatech USA

Schaefer Machine

(*) Sitma USA

(*) Streamfeeder LLC

Suspension Feeder

Thomson National Press

Toyo **Ink** Int'l

Vijuk Equipment

Laminating Supplies

American Binding

Autobond Eastern

Catalina Graphic Films

CONTECH

Copy...

...C.

Renz America

Schaefer Machine

Schmid Corp.

(*) Scott Equipment

(*) Southwest Plastic Binding

Spiral Binding

Toyo **Ink** Int'l

Transilwrap Co.

Packaging

Equipment & Supplies

APS Packaging Systems

ARPAC L.P.

B.H...

...Schaefer Machine

(*) Simco Industrial Static Control

(*) Sitma USA

Spraymation, Inc.

(*) Streamfeeder LLC

Suspension Feeder

Toyo **Ink** Int'l

USA Leader

xpedx

Palletizers

Blumer (USA)

Book Technology Group

C&D Robotics

Elsner...

...Machinery Mfg.

xpedx

(*) xpedx/Import Group

Pallets: Plastic

Litco Int'l

Stratis Plastic Pallets

Toyo **Ink** Int'l

Pallets: Wood

Litco Int'l

Paper Shredders

Copy Finishing Systems

(*) The G.F...

...Jiffy Printers Products

London Litho

Pfankuch Machinery

(*) Southwest Plastic Binding

(*) Spiel Assoc.

Spiral Binding

Toyo **Ink** Int'l

Western Plastics

xpedx

Skid Turners & Covers

Automatan, Inc.

(*) Colter & Peterson

(*) LDR-Litho ...Economy Tablet & Paper

Elsner Engineering Works

(*) Ferag Americas

Lloyd Machinery

Pfankuch Machinery

(*) Sitma USA

Toyo **Ink** Int'l

Western Plastics
xpedx

(*)=Advertiser

10/6,K/12 (Item 3 from file: 16)
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07232936 Supplier Number: 61424437 (USE FORMAT 7 FOR FULLTEXT)

New products.

March, 2000

Word Count: 2543

... trimming at up to 1,800 per hour.

Circle No. 398 on Reader Service Card

Ink -jet Printing System With Automated Nozzles

The Leibinger Jet 1 continuous **ink** -jet printing system is now available in North America from the Paul Leibinger Company. The...

...push of a button, the Jet 1 seals itself, forming a closed loop, which recirculates **ink** during downtime, for hours or weeks. This automated nozzle is designed to reduce cleanup, as...to four times more paper than a conventional air feed. Near-vertical loading reduces the **weight** of the stack on the **sheet** being fed.

Circle No. 406 on Reader Service Card

New High-volume Copy Paper Package...

...no ream wraps. The Tidal DP Express Pack is available in a 20-lb. basis **weight** with **sheet** sizes of 8 1/2x11", plain and three-hole punched.

Circle No. 407 on Reader...

...for Heidelberg presses. The No-Mark StarBrush's soft, natural bristle brush wheels eliminate the **ink** tracking and scratching of coated stocks often caused by older-style metal, spiked guide wheels...

...digital display with a remote platform placed under the Knorr jogger. After obtaining a sample **weight** on the reference scale, the remote platform **determines** the piece count during the jogging process. The system saves time by allowing the jogging...that creates a cushion of air between the paper stock and transfer area. This prevents **ink** tracking, marking and **paper** scuffing on any type and **weight** of stock.

Circle No. 414 on Reader Service Card

Affordable, Fast-Drying **Ink** for Mid-size Presses

Spinks **Ink**, which specializes in inks for the smaller print shop, is expanding its offerings with Titan **ink**. Specially formulated for the mid-size press market, Titan **ink** is designed to deliver outstanding performance in high-volume printing environments, at an affordable price. This fast-drying, rub-resistant **ink** is available in black and process colors, as well as a full complement of Pantone...

10/6,K/13 (Item 4 from file: 16)
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05948094 Supplier Number: 53207494 (USE FORMAT 7 FOR FULLTEXT)

No More Guessing Games.

Oct 26, 1998

Word Count: 393

... and other paper handlers can eliminate costly mistakes that come from trying to guess a **paper**'s **weight** from its thickness. According to the manufacturer, the Weighmaster lets the printer **calculate** basis **weight** - the universally accepted standard - by weighing an 8 1/2x11"

sample and multiplying that value...

...Caprock's general manager, is a measurement so accurate that it can reveal variations in **weight** tolerances maintained by different **paper** mills. What this means to printers trying to buy paper based on samples provided by...

...factor' for each of the six grades of papers. When the 8 1/2x11" sample sheet's **weight** in grams is multiplied by its characteristic factor, the result is the exact basis **weight** of that **paper** in pounds.

Alternately, **weight** may be **determined** by using the included basis **weight** graph for all six grades of papers.

Weigh It, Okay It

Mr. Schwartz says that despite their traditional reliance on 'feel' for sizing up papers, printers 'know that to **determine weight**, you have to do some weighing.' With the Weighmaster, he says, they can do it...

...assurance that they will not be stymied by mill variations or by heavily inked or **ink**-encapsulated samples. Printers who try to use unidentified piles of papers from previously completed jobs...

10/6,K/14 (Item 5 from file: 16)

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05690933 Supplier Number: 54479410 (USE FORMAT 7 FOR FULLTEXT)

Consumables: Paper.

April, 1998

Word Count: 967

...specifiers that Finch carries an extensive line of cut-size business papers specifically designed for **ink**-jet, laser and xerographic equipment, as well as color copiers. The company also provides rolls for digital presses. The swatchbook can help end users **determine** their **paper** needs. Every grade, **weight** and finish of the digital/cut size line is represented throughout, with an artistic interpretation...

...communication papers. These lines provide papers designed specifically for high-speed xerographic copiers, laser and **ink**-jet printers, offset duplicators and plain paper faxes. These grades include Eureka! 100, a paper...

...text and cover weights. Hammermill also offers Fore DP, which runs efficiently through laser and **ink**-jet printers, copiers, small and large offset presses, and plain paper fax machines. Other papers...

...surface of Potlatch's Vintage gloss and velvet reportedly assures excellent reproduction quality and retained **ink** gloss. Potlatch also manufactures Mountie, a highly versatile, matte-coated sheet that offers excellent bulk...

...grades are perfect for offset duplicators and highspeed copiers/laser printers that accept higher basis **weight paper**. Springhill Vellum Bristol-Cover Plus is available in white and 11 colors; Springhill Index Plus...

...are changing from "Xerographic" to "Multi-purpose." Union Camp designs these brands for laser and **ink**-jet printers, copiers, plain paper fax machines and offset presses. The name change is meant...

10/6,K/15 (Item 6 from file: 16)

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04434348 Supplier Number: 46505080 (USE FORMAT 7 FOR FULLTEXT)

THE MEASUREMENT OF PRINTED INK FILMS BY X-RAY FLUORESCENCE

July, 1996

Word Count: 2520

THE MEASUREMENT OF PRINTED INK FILMS BY X-RAY FLUORESCENCE

... the basic mechanisms involved or to support product development in either the paper or the ink industries. In some instances, the ability to determine the level of ink transferred to paper could even help to clarify the fundamentals of mechanical press design [1].

The characterization of printing papers in a research environment frequently includes some measure of ink transfer and ink holdout, i.e. the degree to which the paper resists ink penetration. A high ink penetration level is generally not desired since it increases the amount of ink required to obtain a satisfactory print density and this results in a higher level of print-through. The combination of high ink holdout, good ink mileage and high print-through resistance is frequently looked upon as an ideal target in product development efforts.

Even today, most work to characterize ink transfer properties of paper is done by the traditional gravimetric procedure that involves the weighing...

...inked printing plate before and after printing on a laboratory proof press. By subtracting the weight of the clean plate without ink it is possible to calculate the amount of ink on the plate before and after printing and thus the amount of ink transferred to the paper.

The very thin ink films give ink weights of only 50 milligrams for a 100-cm(2) printing plate at 5 g/m(2) of ink on the plate. The gravimetric method is limited to the use of a metal printing...

...dry weight and is also light enough to be weighed with an analytical balance.

Gravimetric ink transfer measurement is a slow process requiring great care and attention to detail. The method...

...blankets that increasingly dominate the commercial reality of the printing industry.

The need to measure ink films on paper in more realistic simulations of the offset printing process gave rise to...

...and using radioactive tracers in a printing laboratory.

An alternative method is to dope the ink with a suitable metallic tracer which can be measured by atomic absorption spectrophotometry (AA) [3,4]. The paper with the printed ink film is ashed and the ash is dissolved in a suitable acid. The solution is...

...we found no evidence of reports on the use of XRF to analyze offset printed ink films, although this technique was being developed for the analysis of fillers and coating pigments in paper. Evaluation of the then-available methods of ink level measurement showed none of them to be suitable for the routine evaluations that were...

...and for gravure inks containing copper and zinc [7]. In France, the determination of gravure ink transfer was being developed using copper and cobalt as tracers [8]. The difference in approach...

...commercial inks: Commercial printing inks have changed over the years, and several of the traditional ink pigments have been removed from the market for safety and environmental reasons. As a candidate for measurement by XRF an ink should contain suitable quantities of a suitably high atomic number element that has a strong...

...blue) are still used in some light-fast inks.

The main application of the desired ink level measurements was in the mechanical and fine papers field and it was decided to...

...magnesium printing plate. The plate measured 60mm x 178mm and weighed

approximately 30 g. The **ink** on the plate before and after printing was calculated from the weights of the inked plate before and after each print. The **weight** of **ink** transferred to the **paper** was set equal to the **weight** lost by the plate during the printing process.

First attempt at calibration: The first XRF/gravimetric calibration showed unexpected scatter and an apparent non-linearity at higher **ink** levels. This disappointing result gave ...used to clean the plate after each print can be a significant source of drift; **Ink** distribution non-uniformity over the area of the plate can be significant even if not visually apparent.

Ink level uniformity within the print was ultimately found to be the limiting factor in comparing...

...identified sources of error and provided a good linear relationship between XRF signal and gravimetric **ink** level.

The significant XRF signal for unprinted paper, i.e. zero **ink** level, indicated the need for a correction via a blank. The method was checked by preparing a set of 24 prints for which the **ink** level was determined gravimetrically. Small disks were taken from these prints and the **ink** on these was determined by XRF using the calibration data from the second calibration.

The calibration check gave good agreement between the net XRF intensity ratio and the gravimetric **ink** levels with an explained variation of $R^2 = 0.991$ for the 24 prints. The least squares fit of the XRF **ink** levels to the gravimetric **ink** levels was very close to the expected 1:1 relationship. The standard error of the XRF **ink** estimate was 0.15 g/m(2) and inspection of the differences showed that a...

...of the large standard error. It was assumed that these larger differences were attributable to **ink** level non-uniformities within the second series of prints.

Third calibration effort: A third set of 28 calibration prints was subsequently made with more attention paid to **ink** distribution uniformity and this resulted in an even better fit ($R^2 = 0.9990$) of relative XRF intensity versus gravimetric **ink** level, Fig. 1. This was taken as confirmation that the accuracy of the method is...

...producing a good set of calibration prints. The XRF counts that arose from the printed **ink** films in this work were generally high enough to give three-sigma values corresponding to less than 0.05 g/m(2) of **ink**. The standard error of the XRF **ink** estimate was only 0.07 g/m(2) in the final method.

Examination of the...

...be less than 5%, with the exception of one point at 11% for a low **ink** level where relative weighing errors are expected to increase.

A Philips PW-1400 automated wavelength...

...was used for the study. The Fe K-alpha peak originating from the Prussian blue **ink** was measured on the LiF.200 crystal for 20 seconds with 2×10^5 -second background counts...

...the paper surface flat without any bulge. In order to prevent scorching of the delicate **ink** film by the strong primary X-ray flux, the Rh tube was run only at...

...range 0.6 to 1.2 g/m(2).

It was possible to compare the **ink** levels on the different papers with the print density, print-through and gloss of the...

...physical properties of the unprinted papers. Without the XRF method to quantify the amount of **ink** on the different papers it would have been impossible to separate the contributions of the papers and of the **ink** levels.

LAB APPLICATION

A convenient tool for quick lab screening of printing properties of both...

...Vandercook proof press.

With the help of the XRF method to quantify the amount of **ink** transferred to paper, it became possible to measure the amount of **ink** on the paper printed from a step plate block, i.e. a type-high steel block with selected areas machined out to give printing areas which give well-defined **ink** film thickness with a draw-down knife. In our laboratory we have routinely used blocks 14, and 16 microns depth.

Figure 3 illustrates the **ink** transferred to two different uncoated offset papers printed with step plate blocks on the Vandercook press. It is evident that the **ink** transferred to the two papers is significantly different at high **ink** levels, but it becomes very similar at the lower levels approaching those found on a...

...12-point coated board samples produced by different mills. These samples all showed very similar **ink** transferred to the paper at **ink** levels of 6 and 10 microns on the step plate. It would appear that under these printing conditions there was very little difference in the **ink** transfer to the various papers. The lack of larger differences for these coated boards was ...

...the years, and its main benefit has been the ability to measure the amount of **ink** transferred to paper in a number of situations that are otherwise normally characterized only by...

...results described here focus only on offset printing, but the method was shown to measure **ink** transferred to paper in rotogravure printing and it will work equally well with flexography or...

...only the papermaker interested in product development, but it can also be of use to **ink** makers and even to printing press manufacturers wishing to obtain more direct data on the factors that affect the transfer of **ink** to paper.

With the help of this cost-effective, precise and accurate method it becomes possible to make significant progress in understanding paper and **ink** interactions under realistic conditions on commercial presses and on smaller laboratory presses.

ACKNOWLEDGEMENTS

The authors...

...6. GHANY SALEH, A. Professional Printer 23(4): 10-16, 1979.

7. ELSAYED, S. Am. **Ink** Maker 53(2):55-56,58,61-62,101-103, 1975.

8. CHIODI, R., GRAVIER...

PRODUCT NAMES: *2621000 (Paper); 2893000 (Printing **Ink**)

NAICS CODES: 32212 (Paper Mills); 32591 (Printing **Ink** Manufacturing)

10/6,K/16 (Item 7 from file: 16)

DIALOG(R) File 16:(c) 2004 The Gale Group. All rts. reserv.

03797003 Supplier Number: 45410087 (USE FORMAT 7 FOR FULLTEXT)

safe as houses: The mailing house is often overlooked in the market chain, but as David Reed reports it plays a key part

March 20, 1995

Word Count: 4053

... of a 1/2 inch in width and 1/4 inch in depth.

Folding and **paper weight** also affect machinability and speed. The enclosures have to have a clean leading edge - that...letter.

The form of addressing should be set out, whether it is via window envelope, **ink** -jetting on the outer, or labelling. If the mailing house is processing the list, a...

...won't get stuck after being inserted," he says.

Quality can be assessed by the **weight** of the **paper**, its opacity, porosity and bulk. Envelopes are available in standard sizes from stock and can be overprinted. Alternatively, they can be custom made in almost any size or finish. The **weight** of the envelope will need to be **calculated** in order to work out the postage payable per item. A simple equation of depth...

10/6,K/17 (Item 1 from file: 148)

DIALOG(R) File 148: (c)2004 The Gale Group. All rts. reserv.

12588014 SUPPLIER NUMBER: 65239840 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Specialty Sheets for Good Looks. (use of high quality paper for laser printers gives a professional look) (Living Arts Pages) (Product Information)

August, 2000

WORD COUNT: 1694 LINE COUNT: 00134

TEXT:

Using plain paper in a laser or **ink** -jet printer is not a good idea, Specialty sheets improve the look and feel of documents printed in laser or **ink** -jet printers, which in turn can reflect the quality of the printed work. Further, readers...

...cheaper than specialty grades (usually by around 50%), it can create problems for laser and **ink** -jet printers. Because plain paper has lower optical and strength quality, it cannot reproduce rich graphics or solid text the way a specialty paper can. Additionally, the **ink** in laser and **ink** -jet printers is much different than the **ink** in copy machines, and the process of puffing **ink** onto the paper is very different as well.

SPECIAL TREATMENT

Specialty papers are made with...

...around 90 GE. Smoothness is desired for longer runs, especially those that contain graphics.

The **paper**'s **weight** (or basis **weight**) **determines** its thickness. Basically, **weight** is important for two reasons: First, it is stiffer, or stronger, through the printer's handling and **ink** application processes. For continuous (web) jobs, this becomes very important as it relates to the...

...Choice (32-lb.), to name a few. One thing is for sure: the higher the **weight**, the more expensive the **paper**.

RECYCLED GRADES

Don't be afraid of or influenced too much by recycled grades, which ...

...because collecting and redistributing wastepaper costs about the same as culling a tree, regrettably.

USING **INK** -JET PAPERS

Ink -jet printer prices are very low right now. With rebates and discounts, these printers can...

...differences that you should try out on your own printers.

SPECIAL PROPERTIES

Paper makers produce **ink** -jet paper with very special properties to handle many issues. **Ink** -jet inks are primarily liquid (though solid **ink** -jet **ink** exists), thus the paper is being re-wet when **ink** is applied. Paper fibers love water, and everything follows water into the sheet, which is not good for your jobs.

Because water and **ink** components will be variably absorbed by the paper, your printed sheet will vary in **ink** density--the chief factor in the quality performance of your job. Black is especially affected. Black can "feather" or "wick," ugly terms used to define the amount of **ink**

outside the lines on text or graphics borders.

Using plain paper in an **ink** -jet printer usually will result in smudges or strike-through, and certainly poor reproducibility. **Ink** -jet paper makers add a sizing agent, a chemical that keeps the wet **ink** drop on the sheet or just at its surface. When reading paper packages or reviewing products, look for terms such as "high **ink** hold out" or "smudge--proof," or something that indicates that the marketer is avoiding these problems.

The paper should be made to dry the **ink** fast and leave it on the surface looking clean. This is especially true for OEM...

...tray for a minute or two before finishing it.

The most popular products made for **ink** -jet printing applications are those from Champion; Georgia-Pacific (GP), which owns its own chemical ...and Kodak) all offer products for their printers.

Converters like Rittenhouse and Southworth also make **ink** -jet papers. Wide-format printer manufacturers such as CalComp, Encad, Oce and HP also are...

...a first cousin to their copy papers. Most of the attributes guiding the selection of **ink** -jet papers applies to laser **paper** (brightness, smoothness, **weight**), but it also is important to consider quality, especially when choosing multi-purpose or dual-purpose papers.

Laser paper prices are cheaper than those of **ink** -jet grades because they are so close to copy papers in their manufacture. It is...

...Less-bright paper will be affected most severely.

The same mills and OEMs involved in **ink** -jet paper manufacture also are making laser papers. For higher-end Indigo and Xeikon commercial...

...Fox River, Gilbert, Mohawk, Neenah, Strathmore, Wausau, and others are very suitable for laser and **ink** -jet applications.

New continuous digital stock is being rolled out by GP (MicroPrint), International Paper...

10/6,K/18 (Item 2 from file: 148)

DIALOG(R) File 148: (c)2004 The Gale Group. All rts. reserv.

09838652 SUPPLIER NUMBER: 19714090 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Mechanical consequences of coating penetration.

June, 1997

WORD COUNT: 2586 LINE COUNT: 00230

... fill surface voids and irregularities to provide a smooth surface for printing. Qualities such as **ink** receptivity, optical properties, and surface strength are affected by the distribution of binder in the...

...penetration and the interaction zone by measuring the dynamic mechanical... properties of a LWC (light **weight** coated) **paper** at various levels of coating addition.

METHODS AND MATERIALS

Coated paper samples prepared at five...

...using a Dow roll coater. The coating was applied at 62.7% solids. The base **paper** was a light **weight** (LW) grade of **paper** with a base **weight** of 53 g/(m.sup.2). The pigments were supplied by ECC International and consisted...

...five regions. The weight of each sample was measured using a Mettler balance. The coat **weight** was **calculated** from the difference in grammage between the coated paper and ...the coating consolidates and becomes immobilized. From the measured gel point (73.8%), the theoretical **weight** of water absorbed from the coating for each sample was **calculated** (Table

2).

The effect of water absorption on paper thickness was estimated by applying approximately:...

...of low coat weight. A sample was then cut from this area and its coat **weight determined** by taking the difference in grammage between the sample and base **paper**. The thickness and coat **weight** of this sample were 80.7 ((micro)meter) and 3/1g/(m.sup.2), respectively...

...m.sup.2), the coating is fully absorbed by the base sheet.

Table 3 - Uncoated **Paper** Thickness after Wetting

Weight of Water Absorbed (g/(m.sup.2))	Thickness (((micro)meter))
Unwetted basepaper	78.8

1...the paper surface and the coating layer begins to form. The bending modulus of the **paper** increases significantly below a coat **weight** of 7 g/(m.sup.2). Above 7 g/ (m.sup.2), the bending modulus...

...point of the coating. It was shown that dynamic mechanical analysis can be used to **determine** the optimum coat **weight** for maximum **sheet** stiffness. The approach seems to be feasible for following the increase in bending stiffness in...

...practice, mills could use the technique to monitor the thickness of the coating layer and **determine** the coat **weight** at which no additional benefits in stiffness are obtained. Adjustments to the base **sheet** properties (porosity, absorbency, basis **weight**) and coating formulation could then be monitored to improve the mechanical properties of the paper ...

...Science and Engineering. She is involved in research to examine the affects of coating and **ink** theology on print quality and the affects of finishing of the mechanical properties of paper...

10/6,K/19 (Item 3 from file: 148)

DIALOG(R) File 148:(c)2004 The Gale Group. All rts. reserv.

09022538 SUPPLIER NUMBER: 18757832 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Non-destructive high-energy chemical analyses of films.

Sep 23, 1996

WORD COUNT: 1681 LINE COUNT: 00137

... such techniques. Puumalainen and associates(19) make the point that XRF (X-ray fluorescence analysis) **determination** of coating **weight** on a **paper** coating machine is insensitive to the moisture of the coating or paper.

These techniques can...W. Drisko, Mater. Prot. and Performance, p.16(Oct. 1972)

28. M.T. Novak, Amer. **Ink** Maker, p.14(July 1982)

29. E.B. Gutoff and E.D. Cohen, Chap. 2...

10/6,K/20 (Item 4 from file: 148)

DIALOG(R) File 148:(c)2004 The Gale Group. All rts. reserv.

08615124 SUPPLIER NUMBER: 18180882 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Create your own cards.(self-made greetings cards)

April, 1996

WORD COUNT: 592 LINE COUNT: 00046

... shop around. The number you buy and the quality of the paper used will help **determine** the actual price. Matching envelopes are usually included. **Paper weight** is usually 110 pound stock, with some variety in texture from which to select. Our...

...subject and the name of the photographer is hand-printed or written in fine black **ink** under the print.

As a special thank you gift for a special occasion, you can...

10/6,K/21 (Item 5 from file: 148)

DIALOG(R) File 148:(c)2004 The Gale Group. All rts. reserv.

08472286 SUPPLIER NUMBER: 18006700 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The printed word: a closeup look at wedding invitations.

Jan, 1996

WORD COUNT: 1702 LINE COUNT: 00140

... referred to as traditional invitations. The basic elements of a formal invitation are a heavy **paper weight**, high cotton fiber card, off-white, with engraved printing in a delicate script type. Formal...

...lettering on the printed side of the paper. The paper is first printed with standard **ink**, then dusted with a resinous powder and passed through a heating unit, causing the powder to bond to the **ink**. Thermographic lettering is not quite as free as engraving. It is somewhat shinier, and there...

...on both formal and informal invitations, however, take caution with bold-faced type; the raised **ink** develops a "pebbly" feel when the lettering is thick, and can detract from the beauty...durability. High quality wedding papers usually have a weight of at least 40 pounds. The **weight** of the **paper** is **determined** by the **weight** in pounds of a ream (500 sheets) of the paper cut to standard size. The...

...the bride and groom should expect to pay about \$7 to \$10 per invitation.

Black **ink** is the proper choice for formal weddings, however, almost any other color is acceptable for...

10/6,K/22 (Item 6 from file: 148)

DIALOG(R) File 148:(c)2004 The Gale Group. All rts. reserv.

08063892 SUPPLIER NUMBER: 17165299 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Estimating on the computer. (graphic arts industry)

August, 1995

WORD COUNT: 690 LINE COUNT: 00060

...ABSTRACT: can be tracked. Other activities include creating depreciation schedules, doing estimating and cost accounting, tracking **ink** inventory and making calculations, creating instant printing and negative platemaking price lists, managing job control...

... of all paper warehoused in the plant according to color, size, quantity, etc. It can **calculate paper** costs based upon size and **weight**, and, of course, figure spoilage.

2. Prepare reports on shop production capacity. The computer can...

...may be kept in a file and printed out by computer. Costs such as paper, **ink**, power, etc., can be coded and sorted for a given period.

4. Print a standardized...

...the estimator, which can be revised and updated as cost and labor conditions change.

6. **Ink** inventory and calculations. The computer can keep an up-to-date-inventory of **ink** on hand by color, quantity, type, etc. It can calculate **ink** cost based on coverage, run length, type of stock, or other factors.

7. Job control...

10/6,K/23 (Item 7 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group: All rts. reserv.

07506813 SUPPLIER NUMBER: 15711593 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Clean Air Act glossary. ('94-'95 Buyers Guide Issue) (Glossary)

August, 1994

WORD COUNT: 8363 LINE COUNT: 00676

... equal total coating solids delivered by the spray application system).

Overvarnish--Coating applied over the **ink** on the outside of beverage cans to provide gloss and protection from corrosion and abrasion...solids content by weight percent. Often a percentage is given without specifying whether volume or **weight**. This is confusing and leads to errors in coating **calculations**. Figure B-1 in Appendix B allows quick estimation of the solvent content, in lb...

...unrolled from a large roll, coated by blade, roll coating, or rotogravure as a continuous **sheet** and, after cure, rerolled.

Weight percent solids--The portion of a coating that remains as part of the cured film...

10/6,K/24 (Item 8 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

07294046 SUPPLIER NUMBER: 15406353 (USE FORMAT 7 OR 9 FOR FULL TEXT)

How to design documents for effective use in imaging. (imaging technology)

Jan 26, 1994

WORD COUNT: 1177 LINE COUNT: 00089

... for printing information that is human-readable and can be converted easily with OCR. Magnetic **ink** Character Recognition (MICR) fonts are limited, highly stylized character sets printed in magnetic **ink**. Most people will recognize the most common use of MICR font as the account information...

...but good document design can increase significantly your system's accuracy rate.

...Form design and **ink** color

A good form, first of all, will be easy to fill out by virtue...

...similar amount of clear space around each recognition field.

Dotted rules printed in drop-out **ink** can be used to segregate sections of the form for clarity. Areas can be shaded using drop-out **ink**. It should be used also for data entry field constraints and text within 0.25" of data that the system must read.

.. Drop-out **ink** for black and white scanners is the same color of light or filter used in...

...than 60 percent) like pale green, yellow or orange, or by printing a less reflective **ink** with a 30 percent screen or half-tone. The best way to find out if a color drops out is simply to test it on you scanner.

Scannable **ink** colors should be used for all data that must be read by the recognition system corrective action.

Your scanner's capability will **determine** your **paper** size parameters. The recommended **weight paper** is 20 to 24 pounds, with a thickness of 0.005 inches. High-gloss paper should be avoided, since **ink** can smear and the reflection can block out important data.

If abiding by social mores...

10/6,K/25 (Item 9 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

07247683 SUPPLIER NUMBER: 14966804 (USE FORMAT 7 OR 9 FOR FULL TEXT)

How to identify paper. (for print reruns) (Column)

March, 1994

WORD COUNT: 1056 LINE COUNT: 00080

...ABSTRACT: paper suppliers, paper sample cabinets and documented personal experience. Some telltale signs include job size, **paper** thickness, caliper and **weight**, coatings, finish, watermark and deckle edge.

... be kept on unique papers and their sources. The documentation should include a paper sample, **ink** drying and bindery characteristics, supplier, and prices.

Specific suggestions

Here are some specific suggestions for...

...x 11" sheet or stock available in 25 x 38" because of the waste.

The **paper** thickness, caliper, and **weight** also supply a clue. Some stock such as ledger come in 28-and 32-lb...

...the stock at hand. A drafting vellum, for example, has high translucency, while a bible **paper**, with similar **weight** and thickness, will have high opacity. Obvious differences such as particles or impurities in the...

...salesperson. The office can perform specialized and sophisticated tests on abrasion resistance thickness, bursting strength, **weight**, etc., for better identification.

Being asked to **estimate** paper for a job based upon a sample provided by the customer is not necessarily...

10/6,K/26 (Item 10 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

07188717 SUPPLIER NUMBER: 14832230 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Determining paper caliper. (Estimating)

Feb, 1994

WORD COUNT: 738 LINE COUNT: 00066

...ABSTRACT: refers to a paper's thickness, which is also called 'caliper.' 'Substance' refers to a **paper**'s **weight**. A table can be used to **determine** the substance of a paper whose bulk has been measured by a micrometer.

... a papers caliper or thickness. Some stocks, such as writing papers, are designed to receive **ink** and are not thick or bulky in caliper. Other papers, such as vellums or book...

...22" sulphite bond weighs 20 lbs and thus is referred to as "Sub. 20". The **weight** of a **sheet** of **paper** is **determined** using a precision scale to measure a single sheet. Both substance and caliper may be...

...a given paper sample. Once the thickness is known, amble is used to find the **weight** or substance of a stock (see table below). The estimator must use caution, however, in relating thickness to **weight**.

Paper bulk or thickness may vary for many reasons. Papers bulk differently because of a number...

...read off substance. Since thickness varies, the printer cannot rely wholly upon the micrometer to **determine** basic **weight** or substance. However, it is a fast and convenient guide when used with judgment in...

...in most instances. An accurate paper scale should be used when precise

measurements are needed. **Paper weight** is more critical than bulk when dealing with most mailing pieces. When planning a mailing...

10/6,K/27 (Item 11 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

06695656 SUPPLIER NUMBER: 14363249 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Five ways to save money at the printer. (Production)

August 1, 1993

WORD COUNT: 1348 LINE COUNT: 00096

... feel that you've cut all the corners you can on things like printing, paper, **ink**, binding and shipping, and you've also reviewed your invoices to make sure you're...

...addition, many printers charge a handling or insurance fee. Carefully review your printing invoice to **determine** what you're being charged per hundred- **weight** (cwt). Then call some **paper** brokers, merchants and mills. You'd have to buy extremely large amounts of paper to...

...instead of four colors over four (4/4). That translates into fewer plates and less **ink**, which means less makeready--and that means less expense. Another option would be to print...16,000 per year. On top of that, you'll realize a minimal savings in **ink**.

5. Don't stop the presses. There's no valid reason to stop a pressrun

...

10/6,K/28 (Item 12 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

06225023 SUPPLIER NUMBER: 12851993 (USE FORMAT 7 OR 9 FOR FULL TEXT)

EPA VOC Glossary. (volatile organic compound) (includes appendices)

(Glossary)

August, 1992

WORD COUNT: 8983 LINE COUNT: 00733

... of the printing roll is essentially at the same level as the nonimage area. The **ink** wets the image area only, and the nonimage area is wetted by water. **Ink** is transferred from the printing roll to the rubber surface on a roll called the blanket cylinder, which transfers the **ink** to the paper. When a web or continuous roll of paper is used, the process...

...equal total coating solids delivered by the spray application system.)

Overvarnish--Coating applied over the **ink** on the outside of beverage cans to provide gloss and protection from corrosion and abrasion ...thin, protective topcoat is applied by the last print head of the press.

Vinyl printing **ink** --Any moisture or solution containing a polymeric resin and dye or pigment that is applied...

...solids content by weight percent. Often a percentage is given without specifying whether volume or **weight**. This is confusing and leads to errors in coating **calculations**. Figure B-1 in Appendix B allows quick estimation of the solvent content, in lbs...

...unrolled from a large roll, coated by blade, roll coating or rotogravure as a continuous **sheet** and, after cure, rerolled.

Weight percent solids--The portion of a coating that remains as part of the cured film...

10/6,K/29 (Item 13 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

06201816 SUPPLIER NUMBER: 13620097 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Sample preparation using wired bars. (préparation of paint and other
surface coatings)
Oct 28, 1992
WORD COUNT: 783 LINE COUNT: 00063

... 10|mu
coating is equal to 10 grammes/|m.sup.2
(gsm). The dry film **weight** may then be **calculated** from the %
solids.

Eg, Applying a coating with a solids content of 40% and a...

...bed should be available with various resiliences to allow for different
substrates, eg a gravure **ink** onto paper should have a harder bed than a
gloss paint into card.

Alternatively, a...

...Wire bars are also used on production machines as an easy way to control
coating **weight** . Typical uses include adhesive coating, **paper** coating,
carbon film etc.

T R Kerchiss is Director of RK Print-Coat Instruments Ltd...

10/6,K/30 (Item 14 from file: 148)
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

05846191 SUPPLIER NUMBER: 12105358 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Recycled paper use picks up slowly in popularity: landfills, not trees,
provide major recycling incentive. (Special Report: Printing)
March 23, 1992
WORD COUNT: 674 LINE COUNT: 00052

... went into effect 18 months ago stipulates that 10 percent of the
materials in recycled **paper** by **weight** must come from waste products
already used by consumers. Collecting these materials before they end up in
a landfill presents a problem because they must be hand-sorted and the **ink**
, staples and labels removed.

In the process of turning the waste products into a usable substance,
the **weight** of the **paper** **determines** its strength. The lower the
weight , the greater its potential to disintegrate on the press, Mar said.
In turn, that has...

10/6,K/31 (Item 15 from file: 148)
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

05482497 SUPPLIER NUMBER: 11335245 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The difference between laser printer and copier paper. (includes related
article on proper paper handling)
Sept, 1991
WORD COUNT: 1762 LINE COUNT: 00139

... choice of laser printer paper. One attribute of paper, its
stiffness, is, to some extent, **determined** by the **paper** 's **weight** : the
heavier the **paper** , the stiffer the paper. However, according to Randall
S. Akers of Hammermill Papers (Memphis, TN...

...laser printer paper for premium printing remember that "smooth" paper is
less stiff than "rough" **paper** of the same **weight** . Akers explains that
the manufacturing process that produces smoother laser printer paper
(called calendering, where...

...to inhibit show-through of material printed on its other side or from

sheet to **sheet** . Usually the lower the basis **weight** , the less opacity (more show-through). Laser papers, which are commonly 24-pound stock, are ...
...the characteristics of a paper's surface, primarily its smoothness, which affects the degree of **ink** receptivity and printability. "Smoothness is a key factor in papers for laser printing," says Akers...

...breakdown in a letter character. The smoother the paper, the more uniform the transfer of **toner** from the drum," and the sharper the image. Xerographic papers do not need to be...Paper stored in a damp area absorbs moisture resulting in curled edges, jams and poor **toner** fusing.

If it's impractical to store paper in a climate-controlled area, which Krieger...

10/6,K/32 (Item 16 from file: 148)
DIALOG(R) File 148: (c)2004 The Gale Group. All rts. reserv.

05205614 SUPPLIER NUMBER: 10976459 (USE FORMAT 7 OR 9 FOR FULL TEXT)
50 firms capture honors. (CMM8 International Innovation Technology Recognition program for paper, film and foil converting industry) (Special Report: CMM8 Innovation)
June, 1991
WORD COUNT: 3866 LINE COUNT: 00316

... line silicone-coating monitor for accurately measuring silicone thickness. The monitor can measure the coating **weight** of silicone on **paper** in .2 sec. to 5 secs., and measurement can be performed on-line as the...

...sec. The console then compares the pass-line to the known dependence, compensates the basis- **weight calculation** and displays it.

* Black Clawson, Fulton, NY, in the Converting Machinery or Accessory category for...Gallus/Comco Products to develop the printer for tag and label converting. The printer's **toner** -based print station allows an operator to produce variable data or sequentially numbered labels at...

...Graymills, Chicago, IL, in the Converting Machinery or Accessory category for its Agitor quick demountable **ink** pump for easy changeovers. A swivel-lock fastener allows for motor removal without tools or...

...dimensions, exacting cell volumes, longer roll life, volume consistency during each roll application, and improved **ink** and coating transfer.

* Heraeus Amersil, Duluth, GA, in the Converting Machinery or Accessory category for...Process Supply, Chicago, IL, in the Converting Machinery or Accessory category for its Control-Cure **ink** -cure analyzer. The device determines the exact numerical measurement of the nearcure, cure or overcured...

10/6,K/33 (Item 17 from file: 148)
DIALOG(R) File 148: (c)2004 The Gale Group. All rts. reserv.

05205613 SUPPLIER NUMBER: 10959421 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Industry trends punctuate 8th edition of exhibition. (Converting Materials & Machinery conference, Chicago, Illinois) (Converter Show Report)
June, 1991
WORD COUNT: 4434 LINE COUNT: 00363

... into the business and operational requirements of gravure printers. The trolley system has an integral **ink** feed and recovery for complete off-line preparation of **ink** , trays and cylinders for each station while another job is still running. The integral design...sec. The console then compares the pass-line to the known dependence, compensates the basis-

weight calculation and displays it. The pass-line-compensation feature has a patent pending.

Measurement accuracy was...

...to monitor and control multiple production lines. Process applications include monitoring and controlling board and **paper** for moisture and coating **weight**. * Two register-control scanners from Sick Optic Electronic, Eden Prairie, MN, were available. The NT...

10/6,K/34 (Item 18 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

05135199 SUPPLIER NUMBER: 10586267 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Antec 1991 - abstracts of papers. (Society of the Plastics Industry Annual Technical Conference)

March, 1991

WORD COUNT: 56157 LINE COUNT: 04727

... physical properties, behavior in a hot, wet environment, resistance to delamination, ease of processing, and **weight** savings. This **paper** describes the effect of the degree of loading of a rubber modifier in an epoxy...M.J. Goins-Fina Oil and Chemical Co. A Box-Wilson experiment is conducted to **determine** the effect of cast film processing temperature and resin molecular **weight** on physical properties of extruded PP homopolymer film. The work is an extension of a...well known in the literature. A pair of statically designed experiments were carried out to **determine** the effects of resin type, wood flour mesh size, molecular **weight** of coupling agent, acid number, and coupling agent concentration on tensile strength and other physical...compatible with results of the experiment-depending on the strain at which the modulus is **determined**. 11:45 a.m. Varying Molecular **Weight** Polystyrenes and Their Weld-Line Strengths vs. Mold Temperature S.L. Janicki and R. Peters...Plastics T Kilp-Ortech International (Canada) Laser marking is becoming increasingly competitive with conventional printing **ink** technologies. After a brief review of the technology, the use of carbon dioxide lasers is...

10/6,K/35 (Item 19 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

04872644 SUPPLIER NUMBER: 09095196 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The estimator's facilities - part 2. (column)

Nov, 1990

WORD COUNT: 912 LINE COUNT: 00071

... sometimes called a thickness gauge, is a pocket instrument which accurately measures paper thickness. The **estimator** can convert **paper** thickness to substance or **weight** from tables in most **paper** price books. This instrument costs under \$100. It should not be confused with a machinist...

...3. Estimators should keep supplier price lists and catalogs up to date. Request paper salespeople, **ink** vendors, etc., to bring price changes to your attention immediately. Discard outdated price lists as...

10/6,K/36 (Item 20 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

04637462 SUPPLIER NUMBER: 09012160 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Evaluating your paper choices. (paper purchasing and use survey) (Folio:

Source Book 1991)

Annual, 1990

WORD COUNT: 4572 LINE COUNT: 00351

... expenses where few other opportunities may be available. It works in two ways. Cutting total **paper** use, and thus its **weight**, can save money first in **paper** purchases, but also in that portion of postal charges **calculated** by the **weight** of an issue.

Achieving **paper** savings

"If you put ducks in a row, if everything in production and stripping and...Therefore, 12 percent can be knocked off the portion of postal charges attributable to the **weight** of the issue.

Savings in **paper** costs, however, may be negligible since lighter weight papers tend to cost more on a...

...of course, no change is without drawbacks. For the most part, a drop in basis **weight** --thinner **paper** --means a decrease in opacity. The result on press is a greater likelihood of showthrough...

...some cases, that may not be a problem: Putnam Publishing Co. has gone to lighter **weight paper** and is considering trim size reductions in attempts to reduce the 40 percent of operating...

...Magazine, a California regional, is looking the other way by moving to a higher basis **weight paper**, according to its production manager Madlen Ergas. The magazine would go from a 50-lb...

...weight is not enough to forestall the quality change.

Other publishers have experimented with mixing **paper weight** within an issue, says Bob Sullivan, a production consultant. They might run lighter **weight paper** at the back of the book for department, classified sections and so forth, and heavier...to fit the signature. And in both cases, it is the editorial department specifying the **paper**.

Heavy- **weight** uncoated papers similar to that used by Town & Country are also used to give the...

...of a thicker magazine. Sometimes called bulking stock, the paper is thicker than a coated **sheet** of the same **weight**. Magazines such as Golf and Motor Boating & Sailing run how-to departments heavy on text...

...45-lb. and above. Even at the lighter weight, she maintains, the opacity, brightness and **ink** holdout were impressive. She noted that the price was "a lot more" per hundredweight than...

10/6,K/37 (Item 21 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

04614013 SUPPLIER NUMBER: 08846789 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Weighing your paper choices. (survey of magazines their paper standards)

April, 1990

WORD COUNT: 4761 LINE COUNT: 00362

... expenses where few other opportunities may be available. it works in two ways. Cutting total **paper** use, and thus its **weight**, can save money first in **paper** purchases, but also in that portion of postal charges **calculated** by the **weight** of an issue. Achieving **paper** savings

"If you put all your ducks in a row, if everything in production and ...Therefore, 12 percent can be knocked off the portion of postal charges attributable to the **weight** of the issue.

Savings in **paper** costs, however, may be negligible since lighter weight papers tend to cost more on a...

...of course, no change is without drawbacks. For the most part, a drop in basis **weight** -thinner **paper** -means a decrease in opacity. The result on press is a greater likelihood of showthrough...

...some cases, that may not be a problem: Putnam Publishing Co. has gone to lighter **weight paper** and is considering trim size reductions in attempts to reduce the 40 percent of operating...

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...paper weights within an issue, says Bob Sullivan, a production consultant. They might run lighter **weight paper** at the back of the book for departments, classified sections and so forth, and heavier...to fit the signature. And in both cases, it is the editorial department specifying the **paper**.

Heavy- **weight** uncoated papers similar to that used by Town & Country are also used to give the...

...of a thicker magazine. Sometimes called bulking stock, the paper is thicker than a coated **sheet** of the same **weight**. Magazines such as Golf and Motor Boating & Sailing run how-to departments heavy on text...

...of 45-lb. and above. Even at the lightweight, she maintains, the opacity, brightness and **ink** holdout were impressive. She noted that the price was "a lot more" per hundredweight than...

10/6,K/38 (Item 22 from file: 148)
DIALOG(R) File 148:(c)2004 The Gale Group. All rts. reserv.

04583241 SUPPLIER NUMBER: 08821599 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Choosing the right paper for the job. (printing plants)
Feb, 1990
WORD COUNT: 818 LINE COUNT: 00064

... an unfamiliar paper, consider its probable efficiency in feeding through the press, the extent of **ink** absorption and how the printed sheets promise to handle in delivery. These characteristics comprise a...

...on a paper's printability. A lack of opacity combined with a normal or heavy **ink** coverage often results in show-through-- **ink** shows through to the reverse side of the imprinted sheets. This may not prove serious...

...will be reprinted again and again at the plant, regular restocking of a particular grade, **weight** and texture of **paper** may prove necessary. Product continuity from one job to the next plays an important role...

...the fluorescent spectrum, help create a contemporary or computer-age mood in printed sheets.

* Low **sheet weight**, if end-use costs include postage for mailed material. Printed material destined for bulk mailing calls for close calculation of **paper weights**. The **weight** of a single **sheet** of a multiple-page, first-class letter could prove critical to the customer's margin...

10/6,K/39 (Item 23 from file: 148)
DIALOG(R) File 148:(c)2004 The Gale Group. All rts. reserv.

04132768 SUPPLIER NUMBER: 08047635 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Analyzing its composition. (part 1) (paper) (column)
Oct, 1989
WORD COUNT: 1219 LINE COUNT: 00102

... fiber furnish of a given paper may be 60% hardwood and 40% softwood on a **weight** basis. Another **paper** may consist of 100% of one kind of

fiber. But on an overall **paper weight** basis including not only fiber weight, but also all other components such as filler, sizing...

...softwood fibers by used. By contrast, a printing paper designed for optimum printability and even **ink** coverage must have a very uniform and level surface. This will require a very high quantitative **weight** percentage of the **paper** 's fiber composition is **estimated** . This procedure requires a trained analyst in fiber morphology and paper microscopy.

For goundwood and...

10/6,K/40 (Item 24 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

02826738 SUPPLIER NUMBER: 04263865 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Quality control: production manager's art.

June, 1986

WORD COUNT: 3828 LINE COUNT: 00288

... Standards set certain guidelines for the variables involved in color separating and printing/proofing stocks, **ink** rotation, **ink** density, screen angles, gray balance, dot values, etc. Industry standards provide a measuring point to...be possible to achieve.

The second proof that is viewed may be a press proof: **ink** on paper. The first proof is compared to the second proof. Were all corrections made ...wrong choice of paper can severely undercut quality.

Often editorial needs dictate the type and **weight** of **paper** used. For example, an upscale fashion or home-furnishing magazine may print on a high...

...stock with little gloss but good opacity to ensure legibility. For many subscription magazines, the **weight** of the **paper** is a **determining** factor because **weight** affects postal rates.

Understanding the **paper** -making process further enhances the production manager's ability to choose paper stocks wisely. Input...
...opacity, brightness and smoothness also aid this learning process. The chemistry between the printing variables (**ink** , water, fountain solutions) and the paper is critical to a well-run form. The type of screen angle used for color separations and advertising materials is **determined** by the **weight** of the **paper** stock.

Running low on paper or mixing different stock weights and types can affect the...

10/6,K/41 (Item 25 from file: 148)

DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

02176706 SUPPLIER NUMBER: 03375494 (USE FORMAT 7 OR 9 FOR FULL TEXT).

Third dimensional properties. (paper in the printing industry)

August, 1984

WORD COUNT: 1317 LINE COUNT: 00111

... inch for their bulking requirements. This in turn relates to a specified single or multiple **sheet** thickness. For any given basis **weight** , these papers are available in thicknesses ranging from high to very low bulk. Packaging requirements...

...manual tests that one can use to compare different papers.

Required thickness may dictate basis **weight** . Bulking index is a **paper** 's single **sheet** thickness divided by its basis **weight** or inches of thickness per pound of basis weight. It is conveniently used to compare the relative bulk of different papers independently of their basis weights and to **calculate** the basis **weight** needed to obtain a specified

thickness. Accurate measurement of thickness requires consideration of another Z...

...by bringing minute areas of paper and printing plate into more intimate contact for effective **ink** transfer. This is particularly true for letterpress and rotogravure printing. Compressibility is less essential for ...

...hardness, and degree of calendering.

Internal Bond and Surface Strength. As the splitting of an **ink** film occurs between the paper and printing plate following printing impression, the paper is subjected...

...forces in reverse direction to those causing its compression. These forces necessary to split the **ink** film tend to pull the paper structure apart or disrupt its surface. Paper must have...

...of its fibers or coating. These perpendicularly applied forces vary considerably and are dependent upon **ink** tack and the printing process. Rotogravure printing places minimal stress on paper whereas offset lithography...

10/6,K/42 (Item 26 from file: 148)
DIALOG(R) File 148: (c)2004 The Gale Group. All rts. reserv.

02021186 SUPPLIER NUMBER: 03076293 (USE FORMAT 7 OR 9 FOR FULL TEXT)
How printers are planning for your future.
Jan, 1984
WORD COUNT: 4522 LINE COUNT: 00364

... significant improvements to further control waste are expected in the areas of monitoring color register, **ink** flow, dot gain and compensation.

One microprocessor device expected to see increased use scans color ...

...from color scanners to be transferred to press control data banks to maintain uniform printing.

Ink costs are also reduced when there is microprocessor control of waste, Hutchison points out, "because every copy that you throw away has **ink** on it. Raw materials such as **ink** and paper can be about 60 percent of the cost of the product in some...

...over your raw materials, you're reducing your costs."

Another waste-saving device on press **estimates** the signature counts based on **paper weight**. Many printers note that they already use automatic devices that count and sort good and...expect to see more sophisticated bindery-application techniques--such as Selectronic binding, attached mail and **ink** jetting.

Use of the Selectronic (or selective) binding process, developed and patented by R.R...

...audience as narrowly as it can and does not need Selectronic binding.

Attached mail and **ink** jet savings

Attached mail, because of its lower mailing rates, is also a very attractive...

...use of attaching renewals and billing notices to covers, suggests Seymour.

Acknowledging the benefits of **ink** -jet addressing that have been gained by catalog printers, more publication printers are now interested in **ink** -jet addressing as a labeling process in the bindery. Eventually, **ink** jet is expected to replace the common adhesive label used today, say

printers and consultants...

...transactions in circulation and use of names in the bindery by using paper labels. But **ink** -jet imaging in one form or another will bring computer names close up tight to the start of the bindery run."

Dual **ink** -jet printing (an address on a label and an address on the inside on a ...possibility of providing advertisers with more detailed response information from publications, points out Seymour.

Dual **ink** -jetting for coupon promotions could be attractive and desirable to advertisers in the future, Seymour...

10/6,K/43 (Item 1 from file: 160)

DIALOG(R)File 160:(c) 1999 The Gale Group. All rts. reserv.

01924119

Smart moves pay off at Abitibi

April, 1988

... surface. WSOP clay content, which can be as high as 25%, depending on the basis **weight** , imparts opacity, **ink** holdout and **sheet** smoothness. Abitibi-Price, which **estimates** that 60% of N American WSOP demand is currently imported, plans to raise production at...

10/6,K/44 (Item 1 from file: 275)

DIALOG(R)File 275:(c) 2004 The Gale Group. All rts. reserv.

01458962 SUPPLIER NUMBER: 11504572 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Fall shows, part III: imagesetters, imposition and output issues. (Product Announcement)

Nov 8, 1991

WORD COUNT: 20075 LINE COUNT: 01547

... at Print and at the Seybold Exposition didn't indicate how the user specifies the **paper weight** (thickness), a crucial factor in the creep **calculation** . This factor isn't included in the main menus. We were told that it (along...on the screen by December.

Polychrome. As we note below, Polychrome, a division of Dainippin **Ink** and Chemicals (DIC), has been developing a laser platemaker for use in computer-to-plate...

...impressions). Developed by Plazer Ltd: of Israel and called the Plazer 15, it uses standard **toner** . (See Vol. 21, No. 1, p. 33 for more details.) It is claimed to run...

...where LEDs neutralize areas not to be imaged and leave the positive charge where liquid **toner** is to be applied.

As the drum rotates to touch the paper, a strong electrical charge draws the **toner** off the drum and onto the paper. It then is heated in a dryer to fuse the **ink** . AM says that the dryer isn't too hot to prevent running sensitive stock, self...exposed to the laser diode (which creates the latent image) and then to a liquid **toner** (which will form the actual printing surface). The **toner** is then fused to the plate, and it is ready to be used. The plates...

...previous 1440 ES, including:

- * A digital control panel that governs laser intensity, corona voltages and **toner** flow. The control panel also provides a menu for access to all sensor data.

- * A circulation system for controlling **toner** temperature and extending **toner** life.

- * A digital counter to track plate material usage.

The 1440 ZN comes with the...of the pixel the densitometer is

measuring. The operator can select any of the four **ink** colors (C, M, Y or K) and two additional color swatches are displayed. These show what the color would be if the density of the selected **ink** were increased or decreased from its present value. This tool minimizes the amount of prior ...

10/6,K/45 (Item 1 from file: 624)
DIALOG(R)File 624:(c) 2004 McGraw-Hill Co. Inc. All rts. reserv.

01303633

BOB'S BIGGEST BLOOPERS OF THE YEAR

December 30, 2002

WORD COUNT: 642

TEXT:

...Now, with Instinet's head count down 37% in the past year, he sees black **ink** in 2003.

-- ACCENTURE. Once the management and tech consulting arm of Arthur Andersen, Accenture went...

... demand remain weak. Instead of returning to profitability, as both companies expected this year, red **ink** keeps flowing. Meantime, their cash dwindles.

-- **WEIGHT** WATCHERS. Despite its precarious balance **sheet** --a danger I pointed out after its November, 2001, IPO--Weight Watchers walked through its...

...she expects to have it paid off by 2005. With the stock now near \$47, **Weight** Watchers commands 29 times Wall Street's **estimate** of 2003 earnings. So its charms aren't wasted on investors, even if they were...

10/6,K/46 (Item 1 from file: 636)
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.

02275955 Supplier Number: 44385255 (USE FORMAT 7 FOR FULLTEXT)

HOW TO DESIGN DOCUMENTS FOR EFFECTIVE USE IN IMAGING

Jan 26, 1994

Word Count: 1113

... for printing information that is human-readable and can be converted easily with OCR. Magnetic **ink** Character Recognition (MICR) fonts are limited, highly stylized character sets printed in magnetic **ink**. Most people will recognize the most common use of MICR font as the account information...

...but good document design can increase significantly your system's accuracy rate.

Form design and **ink** color

A good form, first of all, will be easy to fill out by virtue...

...similar amount of clear space around each recognition field.

Dotted rules printed in drop-out **ink** can be used to segregate sections of the form for clarity. Areas can be shaded using drop-out **ink**. It should be used also for data entry field constraints and text within 0.25" of data that the system must read.

Drop-out **ink** for black and white scanners is the same color of light or filter used in...

...than 60 percent) like pale green, yellow or orange, or by printing a less reflective **ink** with a 30 percent screen or half-tone. The best way

to find out if a color drops out is simply to test it on your scanner.

Scannable **ink** colors should be used for all data that must be read by the recognition system action.

Your scanner's capability will **determine** your **paper** size parameters. The recommended **weight paper** is 20 to 24 pounds, with a thickness of 0.005 inches. High-gloss paper should be avoided, since **ink** can smear and the reflection can block out important data.

If abiding by social mores...

10/6,K/47 (Item 1 from file: 233)

DIALOG(R)File 233:(c) 2003 EBSCO Pub. All rts. reserv.

00321519 93PK08-031

Portable printers diversify -- But buyers face trade-offs of weight for image quality

19930802

... that meets their specific needs. Advises that buyers should consider areas like output quality, speed, **paper** -handling, unit size, and **weight** ; and **determine** priorities before purchase. Warns that current prices are starting to bottom out and that buyers...

... the advantages and disadvantages of the three major print technologies: dot-matrix, thermal-transfer, and **ink** -jet. Highlights the Portable StyleWriter (\$439) from Apple Computer Inc. and the NoteJet486 from Canon

...
Descriptors: Portable Printer; Vendor Guide; Color Printer;
Dot-matrix Printer; **Ink** Jet Printer

?